AMENDMENTS TO THE CLAIMS:

10/525252 DT01 Rec'd PCT/PTC 22 FEB 2005

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (original) Method for reducing the content of metals in ionic form present in aqueous effluents, characterised in that it comprises the steps of :
 - a) placing the aqueous effluent, comprising at least a metal M_i in ionic form, in contact with at least a metal M_h completely or partially coated with hydrogen before and/or during the placing in contact with the metal ion(s) M_i ; and
 - b) recovering the aqueous effluent.
- 2.(original) Method according to claim 1, characterised in that the metal M_h comprises one or more metals selected from the elements of Groups Ib, IIb, IIIb, IVb, Vb, VIb, VIIb and VIII of the Periodic Table of elements.
- 3.(currently amended) Method according to either of the preceding elaims claim 1, characterised in that the metal M_h comprises one or more metals selected from the elements of Groups Ib, VIIb and VIII of the Periodic Table of elements.
- 4.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal M_h comprises one or more metals selected from iron, ruthenium, osmium, cobalt, rhodium, iridium, nickel, palladium and platinum.
- 5.(currently amended) Method according to any one of the preceding claims claim $\underline{1}$, characterised in that the metal M_h

comprises one or more metals selected from nickel, cobalt, palladium, iridium, ruthenium, rhodium and platinum.

- 6.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal M_h comprises nickel.
- 7.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal M_h is completely or partially coated with hydrogen before being brought into contact with the metal ions M_i which are present in the aqueous effluent.
- 8.(currently amended) Method according to any one of claims 1 to $\frac{1}{2}$ claim 1, characterised in that the metal $\frac{1}{2}$ is completely or partially coated with hydrogen during the placing in contact with the metal ions $\frac{1}{2}$ which are present in the aqueous effluent.
- 9.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal ions M_i are the ionic forms of the elements or combinations of elements selected from scandium, yttrium, lanthanum, actinium, zirconium, hafnium, vanadium, niobium, titanium, chromium, molybdenum, tungsten, manganese, technetium, rhenium, iron, ruthenium, osmium, cobalt, rhodium, iridium, nickel, palladium, platinum, copper, silver, gold, zinc, cadmium, mercury, aluminium, gallium, indium, thallium, silicon, germanium, tin, lead, arsenic, antimony, bismuth, selenium, tellurium, le polonium, iodine, astatine, cerium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, thorium, protactinium, uranium, neptunium, plutonium, americium, curium, berkelium, californium, einsteinium, fermium, mendelevium, nobelium and lawrencium, alone or in admixture.

- 10. (currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal ions M_i are the ionic forms of the elements or combinations of elements selected from scandium, yttrium, lanthanum, actinium, titanium, zirconium, hafnium, vanadium, niobium, tantalum, chromium, molybdenum, tungsten, manganese, technetium, rhenium, iron, ruthenium, osmium, cobalt, rhodium, iridium, nickel, palladium, platinum, copper, silver, gold, zinc, cadmium, mercury, aluminium, gallium, indium, thallium, silicon, germanium, tin, lead, arsenic, antimony, bismuth, selenium, tellurium, polonium, iodine, astatine, cerium, europium, uranium, neptunium and plutonium, alone or in admixture.
- 11. (currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal ions M_i are the ionic forms of the elements or combinations of elements selected from titanium, vanadium, chromium, manganese, iron, cobalt, nickel, platinum, copper, silver, gold, zinc, cadmium, mercury, aluminium, lead, arsenic, antimony, bismuth, selenium, polonium, cerium, uranium, neptunium and plutonium, alone or in admixture.
- 12.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal ions M_i are the ionic forms of the elements or combinations of elements selected from tin, chromium, cobalt, nickel, copper, zinc, cadmium, mercury, lead, arsenic, antimony, selenium, polonium, uranium, neptunium and plutonium, alone or in admixture.
- 13.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that the metal M_h is deposited on a support.

- 14.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that it is carried out at temperatures in the order of between approximately 0°C and 200°C, more particularly between approximately 0°C and approximately 80°C.
- 15.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that it is carried out with aqueous effluents whose pH value is in the order of between approximately 1 and approximately 14.
- 16.(currently amended) Method according to any one of the preceding claims claim 1, characterised in that the aqueous effluent to be processed is water from groundwater tables, surface water, water distribution networks or industrial water, waster water, slurries and industrial waste.
- 17.(currently amended) Decontamination kit comprising at least a metal M_h , which is intended to be used in the method according to any one of claims 1 to 16 claim 1.